

JC20 Recd PCT/IPO 19 SEP 2005

WHAT IS CLAIMED IS:

1. (Deleted)

2. (Deleted)

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3. An anti-seismic reinforcement and expansion method for expanding and remodeling an existing mid-rise building (1) into a high-rise building and the method comprising the steps of,

providing new seismic isolation foundations (5) for the high-rise building on the outer side of existing foundations of the mid-rise building (1),

10 providing support members (6) on said newly provided seismic isolation foundations, forming new dwelling stories (10) above the existing building with utilizing said support members,

15 after said new dwelling stories are formed, dismantling and removing the above-ground part of said existing mid-rise building to form a space,

laying beams (16) between said support members in said space to form floors for a second story and stories above the second story ,

providing a floor for a first story on the upper portion of existing pile foundations (9), and

20 providing new dwelling spaces on said floors of said each new story .

4. An anti-seismic reinforcement and expansion method for expanding and remodeling an existing mid-rise building (1) into a high-rise building and the method comprising the steps of,

25 providing new seismic isolation foundations (5) for a high-rise building on the outer side of existing foundations of the mid-rise building (1),

providing support members (6) on said newly provided seismic isolation foundations, forming new dwelling stories (10) above the existing building with utilizing said support members,

30 after said new dwelling stories are formed, dismantling and removing the upper stories of said existing mid-rise building, and

remodeling remaining stories of said existing mid-rise building story by story .

5. (Deleted)

6. A building anti-seismically reinforced and expanded by the steps of,
providing seismic isolation foundations (5) for a high-rise building on the outer side of
the foundations of an existing mid-rise building (1),

5 providing support members (6) on said seismic isolation foundations, and
forming new dwelling stories (10) above the existing building with utilizing said support
members,

wherein floors for the second story and stories above the second story are formed by
10 laying beams between said support members in a space created by dismantling and
removing the above-ground part of said existing mid-rise building,

wherein a floor for the first story is provided at the upper portion of said existing pile
foundations (9), and

wherein new dwelling space is formed on the floors of each of the newly formed stories.

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7. A building anti-seismically reinforced and expanded by the steps of,
providing seismic isolation foundations (5) for a high-rise building on the outer side of
the foundations of an existing mid-rise building (1),

providing support members (6) on said seismic isolation foundation, and

20 forming new dwelling stories (10) above the existing building with utilizing said support
members,

wherein upper stories of said existing mid-rise building is dismantled and removed, and
wherein each of remaining stories are remodeled.